|   | Index of Claims   |          |  |          |           |           |           |             |           |           |                |          |            |           | Ap                | Application/Control No. |                        |                |                |           |              |             |      |              |            | Applicant(s)/Patent under Reexamination |                         |  |          |                 |                |          |              |           |  |  |
|---|-------------------|----------|--|----------|-----------|-----------|-----------|-------------|-----------|-----------|----------------|----------|------------|-----------|-------------------|-------------------------|------------------------|----------------|----------------|-----------|--------------|-------------|------|--------------|------------|---|-------------------------|--|----------|-----------------|----------------|----------|--------------|-----------|--|--|
| 1 | ,                 |          |  |          |           |           |           |             | ,,,,,<br> | io<br>Mit | 111 (11        | 1        |            |           |                   |                         | 10/812 554             |                |                |           |              |             |      |              |            |   |                         |  |          |                 |                |          |              |           |  |  |
|   |                   |          |  |          |           |           | Ш         | Ш           |           |           |                |          |            |           |                   | H                       | 10/812,554<br>Examiner |                |                |           |              |             |      |              |            |   | ELDRING ET AL. Art Unit |  |          |                 |                |          |              |           |  |  |
|   |                   |          |  |          |           |           | Ш         |             |           |           |                |          |            |           |                   | 1                       |                        |                |                |           |              |             |      |              |            | 1                                       |                         |  |          |                 |                |          |              |           |  |  |
|   |                   |          |  |          |           |           |           |             |           |           |                |          |            |           | Daniel J. Petkovs |                         |                        |                |                |           |              |             | 2874 |              |            |   |                         |  | _        |                 |                |          |              |           |  |  |
|   |                   | ſ        | 7  |          | :         | -4-       | $\Box$    |             | ſ         |           | (              | Thr      | ou         | ցի ու     | ıme               | era                     | 1)                     | ٦              | ٢              | T         | Na           |             | last | 24           |            | П                                       |                         |  |          | 001             |                | 7        |              |           |  |  |
|   | √ Rejected – (11) |          |  |          |           |           |           |             |           |           |                |          |            | Cancelled |                   |                         |                        |                |                |           |              | Non-Elected |      |              |            |   | Appeal                  |  |          | 4               |                |          |              |           |  |  |
|   | = Allowed         |          |  |          |           |           |           |             |           | +         |                |          | Restricted |           |                   |                         |                        |                | ١              | ı         | Interference |             | се   |              | 0          |   | Objected                |  |          |                 |                |          |              |           |  |  |
|   |                   |          |  |          |           |           |           |             | L         |           |                |          |            |           |                   |                         |                        | ٦              | L              |           |              |             |      |              | Ш          |   |                         |  |          |                 |                | _        |              |           |  |  |
|   | Claim Date        |          |  |          |           |           |           | _           |           |           | $\exists$      | F        | Claim      |           |                   |                         | _                      | Pi             | Date           |           |              | _           | CI   |              | im         |   | Date                    |  |          |                 | $\overline{T}$ | Т        | 7            |           |  |  |
|   | Final             | Original | 8  | - 1      | -         | ١         |           |             | ١         |           | ١              |          | Eria<br>Ia | Original  | ١                 | ı                       |                        |                |                | ۱         | 1            |             |      | Final        | Original   |   |                         |  | ١        |                 |                |          |              |           |  |  |
|   | ا تتا             | Š        | Z117/05  | ١        |           |           | ı         | ١           | ١         |           |                | ا        | Ī          | ŏ         |                   | 1                       | 1                      |                | ı              | ı         | 1            | 1           |      | Œ            | ō          |   | 1                       |  |          |                 |                |          | l            | 1         |  |  |
|   |                   | I        |  | ⇉        | $\exists$ | 士         |           | $\exists$   |           |           | コ              | L        |            | 51        | 士                 | #                       | $^{\dagger}$           | 1              | $^{\dagger}$   | #         | 1            | 土           |      |              | 101        |   | ゴ                       | #  | 1        | 丰               | #              | #        | 1            | 1         |  |  |
|   |                   | بالم     | 7  | 4        | 4         | 4         | 4         | 4           | 4         |           | $\dashv$       | $\vdash$ | $\dashv$   | 52<br>53  | +                 | +                       | +                      | +              | +              | +         | +            | +-          | 1 1  |              | 102<br>103 | ${oxed{H}}$                             | 4                       | +  | +        | +               | +              | +        | ╀            | -         |  |  |
|   | $\vdash$          | 4_       | V  | $\dashv$ | ┪         | +         | +         | +           | ┪         | ┪         | _              | H        |            | 54        | $\top$            | $\dagger$               | $\pm$                  | $\dagger$      | $\dagger$      | $\pm$     | $\pm$        |             | 1 1  |              | 104        |   | $\exists$               | _  | 士        | 1               | _              | $\pm$    | 士            | 1         |  |  |
|   |                   | ত্র      |  | $\Box$   | $\dashv$  | $\Box$    | $\Box$    | $\dashv$    | _         | -         | $\exists$      | F        |            | 55        | 4                 | 4                       | 4                      | 4              | 4              | $\bot$    | 4            | -           | }    |              | 105        | Ш                                       | $\dashv$                | 4  | 1        | 4               | $\downarrow$   | 1        | 1            | 4         |  |  |
|   | $\vdash$          | 6<br>7   | 0  | $\dashv$ | ┥         | $\dashv$  | $\dashv$  | $\dashv$    | ᅱ         | ┪         | $\dashv$       | ┝        |            | 56<br>57  | +                 | +                       | +                      | +              | 十              | +         | ╁            | +           | 1 }  |              | 106<br>107 | Н                                       | $\dashv$                | +  | $\dashv$ | +               | +              | +        | +            | ┨         |  |  |
|   |                   | 8        | 0  |          | ⇉         |           | $\Box$    | $\Box$      |           | $\Box$    |                |          |            | 58        | 1                 | ユ                       | 7                      | 1              | 1              | 1         | $\downarrow$ | T           | 1 1  |              | 108        | П                                       | $\Box$                  | $\exists$  | 7        | $\Box$          | 7              |          | T            |           |  |  |
|   |                   | 9        | 0 0  | $\dashv$ | -         |           | +         | $\dashv$    | -         | $\dashv$  | $\dashv$       | $\vdash$ |            | 59<br>60  | +                 | +                       | +                      | +              | +              | +         | +            | +-          | 1    |              | 109<br>110 | Н                                       | $\dashv$                | +  | +        | $\dashv$        | ┿              |          | ┿            | +         |  |  |
|   |                   | Ť        | Ť  |          | 1         |           | $\exists$ |             |           |           | ゴ              | E        |            | 61        | $\exists$         | 7                       | 1                      | 1              | 士              | I         | I            |             | 1 1  |              | 111        | 口                                       |                         | 1  | 1        | 士               | 1              | 士        | 1            | 1         |  |  |
|   |                   | 12       |  | -        | $\dashv$  |           | 4         | _           | 4         | _         | _              | $\vdash$ | 4          | 62<br>63  | 4                 | 4                       | 4                      | 4              | 4              | 4         | 4            | 4           |      |              | 112        | $\sqcup$                                | 4                       | 4  | 4        | $\dashv$        | +              | +        | +            | 4         |  |  |
| • | H                 | 13       |  | $\dashv$ | $\dashv$  | ┪         | +         | $\dashv$    | $\dashv$  | $\dashv$  | $\dashv$       | -        | $\dashv$   | 64        | +                 | +                       | 十                      | +              | +              | +         | +            | +           | 1 1  |              | 114        | ╁                                       | -                       | +  | ┪        | $\dashv$        | +              | +        | ╁            | ┨         |  |  |
|   |                   | 15       |  | $\Box$   | $\exists$ |           |           | $\sqsupset$ | コ         |           |                | E        |            | 65        | $\Box$            | $\exists$               | コ                      | コ              | #              | $\perp$   | 1            | 丰           | 1    |              | 115        |   |                         | $\dashv$   |          | _               | 1              | ユ        | Ī            | ]         |  |  |
|   | $\vdash$          | 16<br>17 | Н  | _        | 4         | $\dashv$  | $\dashv$  | 4           | $\dashv$  | $\dashv$  | $\dashv$       | H        | -          | 66<br>67  | +                 | +                       | +                      | 4              | +              | +         | +            | +           | -    |              | 116<br>117 | $\vdash$                                | -                       | +  | 4        | $\dashv$        | +              | +        | ╀            | -         |  |  |
|   | <u> </u>          | 18       | H  | $\dashv$ | ┪         | ┪         | ┪         | ┪           |           | $\dashv$  | $\dashv$       | $\vdash$ | $\dashv$   | 68        | +                 | $\forall$               | $\dagger$              | 十              | 1              | $\dashv$  | $^{\dagger}$ | +           | 1    |              | 118        | $\Box$                                  | ᅥ                       | -  | 7        | $\dashv$        | $\dashv$       | $\dashv$ | $\dagger$    | _         |  |  |
|   |                   | 19       |  | $\Box$   | $\Box$    | $\Box$    | $\Box$    | $\Box$      |           |           | $\Box$         | F        |            | 69        | $\dashv$          | $\exists$               | $\dashv$               | $\blacksquare$ | $\downarrow$   | $\exists$ | $\dashv$     | 1           | ]    |              | 119        | П                                       |                         | $\Box$   | $\Box$   | $\exists$       | $\exists$      | 4        | $\bot$       | 7         |  |  |
|   | $\vdash$          | 20<br>21 | H  | $\dashv$ | ┥         | -         | -         | $\dashv$    | -         |           | $\dashv$       | ┢        | ┪          | 70<br>71  | $\dashv$          | $\dashv$                | +                      | +              | +              | +         | +            | ╁           | 1    | <del> </del> | 120<br>121 | H                                       | ┥                       | +  | $\dashv$ | +               | $\dashv$       | +        | +            | $\dashv$  |  |  |
|   |                   | 22       |  |          |           | $\Box$    | 耳         |             |           |           | $\Box$         |          |            | 72        |                   | $\Box$                  | ゴ                      | 1              | ightrightarrow | 1         | $\downarrow$ |             | 1    |              | 122        |   |                         |  |          | 1               | $\exists$      | 1        | 1            | 1         |  |  |
|   | <u> </u>          | 23<br>24 | Н  | $\dashv$ | $\dashv$  |           | $\dashv$  | $\dashv$    | -         |           | $\dashv$       | $\vdash$ | 1          | 73<br>74  | -                 | 4                       | 4                      | +              | +              | +         | $\dashv$     | +           | ┨    | <u> </u>     | 123<br>124 | $\vdash$                                | -                       | -  | $\dashv$ | $\dashv$        | +              | +        | +            | $\dashv$  |  |  |
|   | -                 | 25       | Н  | $\dashv$ | ┪         | $\dashv$  | $\dashv$  | $\exists$   | $\dashv$  |           | $\blacksquare$ | t        | _          | 75        | 1                 | 1                       | 1                      | 1              | $\pm$          | 1         | _            | $\pm$       | 1    |              | 125        |   |                         | $\exists$  |          | 士               | 1              | $\top$   | 1            | _         |  |  |
|   |                   | 26       |  | $\Box$   | $\Box$    |           | $\dashv$  |             |           |           | $\Box$         | F        |            | 76        | $\Box$            | $\exists$               | $\dashv$               | 4              | 4              | 4         | $\dashv$     |             | ]    |              | 126        | П                                       |                         | $\dashv$   | $\dashv$ | 4               | 4              |          | $\bot$       | 7         |  |  |
|   | -                 | 27<br>28 | H  | Н        | ┥         | $\dashv$  | ┥         | $\dashv$    | -         | Н         | $\dashv$       | -        |            | 77<br>78  | $\dashv$          | ╁                       | ┪                      | ╅              | 十              | +         | +            | ╅           | 1    |              | 127<br>128 | Н                                       |                         | $\dashv$   | $\dashv$ | $\dashv$        | $\dashv$       | ╅        | ╁            | ┨         |  |  |
|   |                   | 29       |  |          |           |           |           |             |           |           |                |          |            | 79        |                   | $\sqsupset$             |                        | 1              |                | ゴ         |              |             | 1    |              | 129        |   |                         |  |          | $\Box$          | コ              | 工        | 1            | ╛         |  |  |
| • | <u> </u>          | 30<br>31 | _  | Н        | 4         | $\dashv$  | -         | Н           | Н         | Н         | $\mathbf{H}$   | -        | _          | 80<br>81  | -                 | -                       | 4                      | +              | +              | $\dashv$  | 4            | +           | -    | -            | 130        | $\vdash$                                | Н                       | $\dashv$   | $\dashv$ | $\dashv$        | $\dashv$       | +        | +            | 4         |  |  |
|   | <b> </b>          | 32       | H  | Н        | ┪         | $\exists$ | -         | $\vdash$    | Н         | Н         | Н              | 1        |            | 82        | $\dashv$          | 7                       | 7                      | $\forall$      | 7              | 1         | 1            | $\top$      | 1    | -            | 132        | Н                                       |                         |  |          | $\dashv$        | 1              | $\pm$    | $\dagger$    | ┨         |  |  |
|   |                   | 33       |  |          |           |           |           |             |           |           |                | F        |            | 83        | $\Box$            | $\Box$                  | $\Box$                 | $\Box$         | 4              | 4         | $\downarrow$ | $\perp$     | ]    |              | 133        |   |                         | $\Box$   | $\Box$   | $\Box$          | $\exists$      |          | Ţ            | $\exists$ |  |  |
|   | -                 | 34<br>35 | H  | Н        | $\dashv$  | -1        | _         | -           | Н         | -         | Н              | ŀ        | _          | 84<br>85  | $\dashv$          | $\dashv$                | ┪                      | $\dashv$       | ╅              | $\dashv$  | +            | ╁           | ┨    | $\vdash$     | 134<br>135 |   | Н                       | $\dashv$   | ┥        | $\dashv$        | ┥              | ┰        | ╁            | $\dashv$  |  |  |
|   |                   | 36       |  |          |           |           |           |             |           |           |                |          |            | 86        |                   |                         | ⇉                      | 1              | $\exists$      | ゴ         | コ            | 工           | 1    |              | 136        |   |                         |  | ⇉        | $\Box$          |                | ユ        | 1            | ╛         |  |  |
|   |                   | 37<br>38 | <u> </u>   | Н        | $\dashv$  | Н         | _         |             | Н         |           | Н              | ┢        |            | 87<br>88  | $\dashv$          | -                       | $\dashv$               | 4              | +              | $\dashv$  | $\dashv$     | +           | ┨    | -            | 137<br>138 |   |                         | $\dashv$   | -        | $\dashv$        | -              | -+       | +            | $\dashv$  |  |  |
|   |                   | 39       |  | Н        |           |           |           |             | Н         |           |                | t        |            | 89        | $\exists$         | _                       | 1                      | 1              |                | 1         |              | $\pm$       | 1    |              | 139        |   |                         |  | ┪        |                 |                | $\pm$    | $\dagger$    | Ⅎ         |  |  |
|   | $\sqsubset$       | 40       | L  | Д        | П         | Щ         | $\Box$    |             | П         |           | $\Box$         | F        | _          | 90        | $\Box$            | $\exists$               | $\exists$              | $\Box$         | $\dashv$       | $\dashv$  | $\dashv$     | $\bot$      | -    |              | 140        |   |                         | $\Box$   |          | П               | 4              | $\dashv$ | 4            | 4         |  |  |
|   | -                 | 41       | ╁  | Н        | _         | Н         | $\dashv$  | Н           | Н         | $\vdash$  | H              | +        |            | 91<br>92  | $\dashv$          | ┥                       | -+                     | $\dashv$       | $\dashv$       | $\dashv$  | $\dashv$     | +           | 1    | $\vdash$     | 141        |   | H                       | ${oldsymbol{ech}}$                               | ᅱ        | $\vdash \vdash$ | $\dashv$       | +        | +            | $\dashv$  |  |  |
|   |                   | 43       | 匚  |          |           |           |           |             |           |           | 口              | E        |            | 93        |                   | コ                       |                        | d              | コ              | □         |              |             | 1    |              | 143        | $\Box$                                  |                         |  |          |                 | ╛              | 士        | 1            | $\exists$ |  |  |
|   |                   | 44       | F  | H        | $\Box$    |           |           | Н           | $\vdash$  | $\vdash$  | Н              | F        |            | 94<br>95  | $\sqcup$          |                         | _                      | 4              | -[             | $\dashv$  | $\dashv$     | $\perp$     | -    | $\vdash$     | 144        |   | F                       | Н  | $\dashv$ | Ц               | -[             | 4        | $\downarrow$ | 4         |  |  |
|   |                   | 45       | <del>                                     </del> | H        | $\vdash$  | Н         | Н         | H           |           |           | Н              | 卜        |            | 96        | Ⅎ                 | _                       | _                      |                | _              | _†        | _            | +           | 1    |              | 145        |   | _                       | H  | _        | ┢┪              |                | +        | +            | $\dashv$  |  |  |
|   |                   | 47       |  |          |           | П         |           |             |           |           | $\Box$         | F        |            | 97        |                   | $\exists$               | $\Box$                 | $\Box$         | 4              | $\beth$   | $\exists$    | 1           | ]    |              | 147        |   |                         | П  |          | $\Box$          | $\Box$         |          | #            |           |  |  |
|   | -                 | 48       | $\vdash$   | $\vdash$ | Н         | Н         | H         | H           | H         | ┢         | Н              | H        |            | 98<br>99  | ┥                 | ┥                       | ┥                      | ┥              | +              | $\dashv$  | ┥            |             | 1    | <u> </u>     | 148        |   | $\vdash$                | H  | -        | Н               | $\dashv$       | $\dashv$ | +            | $\dashv$  |  |  |
|   | $\vdash$          | 50       | +  | -        | $\vdash$  | Н         | Η.        | <del></del> | Η-        | -         | Н              | r        | _          | 100       |                   | -                       |                        | -              | -              | -+        | -+           |             | ٦.   | -            | 1 450      |   | Η-                      | <del>                                     </del> |          | ┰               |                | -        | -            | $\dashv$  |  |  |